

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/317,409	05/24/1999	SCOTT D. LUCAS	1590.3039	9060	
8015 CYTEC INDU	7590 01/12/2007 STRIES INC.	EXAMINER			
1937 WEST MAIN STREET P.O. BOX 60 STAMFORD, CT 06904-0060			BEFUMO, JE	BEFUMO, JENNA LEIGH	
			ART UNIT	PAPER NUMBER	
			1771		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVED	V MODE	
		· · · · · · · · · · · · · · · · · · ·		DELIVERY MODE	
3 MONTHS		01/12/2007	PAP	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

V	

	Application No.	Applicant(s)	
	09/317,409	LUCAS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jenna-Leigh Befumo	1771	
The MAILING DATE of this communication app Period for Reply			. •
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period wa - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communic D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 17 Oc	ctober 2006.	•	
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.			
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the meri	ts is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1-12,39-46,55,57-76 and 87-89</u> is/are	pending in the application.		
4a) Of the above claim(s) <u>1-12,39-46,60-76 and</u>		leration.	
5) Claim(s) is/are allowed.	·		
6)⊠ Claim(s) <u>55,57-59,88 and 89</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
0 [*]	_		
9) The specification is objected to by the Examine			
10)☐ The drawing(s) filed on is/are: a)☐ acce			
Applicant may not request that any objection to the			04/0
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-15	2.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1. Certified copies of the priority documents			
2. Certified copies of the priority documents			
3. Copies of the certified copies of the prior	· ·	ed in this National Stage	;
application from the International Bureau	`		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary	•	
2) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P		•
Paper No(s)/Mail Date	6) Other:	• •	

DETAILED ACTION

Response to Amendment

1. The Amendment submitted on October 17, 2006, has been entered. Claims 13 - 38, 47 - 54, 56, and 77 - 86 have been cancelled. Claims 55, 88, and 89 have been amended. Therefore, the pending claims are 1 - 12, 39 - 46, 55, 57 - 76, and 87 - 89. Claims 1 - 12, 39 - 46, 60 - 76 and 87 are withdrawn from consideration as being drawn to a nonelected invention.

Claim Rejections - 35 USC § 102

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 55, 57 – 59, 88, and 89 stand rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kain, Jr. (6,180,206) for the reasons of record.

Response to Arguments

3. Applicant's arguments filed October 17, 2006 have been fully considered but they are not persuasive. The applicant argues that Kain, Jr. fails to teach the claimed stiffness treated prepreg plies. However, Kain, Jr. discloses fabrics having two types of resin applied to the fabric. As described in claim 3, the composite includes fiber reinforced matrix resin layers. Kain, Jr., also describes these materials in specification as having an epoxy resin coating fiberglass fibers in a woven fabric (column 7, lines 43 – 50). Thus, the plies disclosed by Kain, Jr. have a first resin applied to the fibers. Additionally, the honeycomb structure includes a film adhesive between a first resin impregnated fabric layer and a second resin impregnated fabric layer. Thus, the layers adjacent the adhesive layer will having adhesive or resin applied to them to some degree.

Application/Control Number: 09/317,409

Art Unit: 1771

Therefore, the prior art teaches using fabric layers in contact with two different types of resins, one being the polymer material and the other being the resin material, which would correspond to the applicant's claimed stiffness treated prepreg ply and resin.

While this not applied to the treated fabric prior to layering of the honeycomb structure, this limitation is a method limitation which is not given weight with respect to the patentability of the product. If the prior art product has the same finished product as the claimed product, then the method of making the composite is not sufficient to distinguish the structure of the claimed product from the prior art. Particularly, the applicant does not recite that he resin is applied in any specific manner, such that the method of applying the resin can be any method step which results in the resin material being placed in contact with the prepreg layer. Including layer a layer of resin film onto a prepreg layer. The limitations with regards to resin and polymer material recited in the claims are broad categories that include the materials taught by Kain, Jr., Further, the method in which the polymeric material in polymerized is not given weight in the product claim and only requires that the polymer be at least partially polymerized. Thus, the prepreg plies used in honeycomb composite structure, which are partially cured prior to completely curing the entire composite read on this limitation. Further, the applicant has not provided sufficient evidence to show that the process would produce a different structure. The applicant has not provided evidence to show that the prior art does not have the claimed properties, as set forth in the previous Office Actions. Without a clear showing of a structural difference between the present invention and the prior art the claims are not sufficient to distinguish from the prior art.

Application/Control Number: 09/317,409

Art Unit: 1771

Additionally, it is noted that Kain, Jr, discloses that by using the prepreg layers as taught adjacent the core layer, instead of using the "picture frame" tiedown ply, Kain, Jr. is able to eliminate core crush and produce lighter composites with less layers. These are also the same things which the applicant discusses are improved as a result of the claimed prepreg structure. Therefore, it is unclear how the method of making and applying the reasons taught by the applicant produces a structurally different final product when the prior art is using the same materials, resin coated prepreg fabric plies and honeycomb cores. The applicant has not clearly distinguished there structure from the prior art with specific structural limitation. Instead the applicant argues that the prior art doesn't have the improved stiffness features. However, the applicant has not provided any evidence demonstrating what the stiffness values or frictional values of the plies used in the prior art would be.

Further, it has been held that as long as there is evidence of record establishing inherency, failure of those skilled in the art to contemporaneously recognize an inherent property, function or ingredient of a prior art reference does not preclude a finding of anticipation. *Atlas Powder Co. v. IRECO, Inc.*, 190 F.3d 1342, 1349, 51 USPQ2d 1943, 1948 (Fed. Cir. 1999). Further, it is noted that when the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not. *In re Spada*, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Thus, the burden has shifted to the Applicant to provide evidence that the properties are not inherent in the prior art materials. *In re Best*, 562 F.2d at 1255, 195 USPQ at 433. Arguments of counsel cannot take the place of evidence. *In re De Blauwe*, 736 F.2d 699, 705, 222 USPQ 191, 196 (Fed. Cir. 1984). Until the applicant either clearly distinguishes the structural features of the claimed product or provides

Application/Control Number: 09/317,409

Art Unit: 1771

evidence showing the prior art does not have the required stiffness or frictional features the rejections are maintained.

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenna-Leigh Befumo whose telephone number is (571) 272-1472.

The examiner can normally be reached on Monday - Friday (8:00 - 5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (571) 272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1771

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jlb January 8, 2007

PRIMARY EXAMINER